Supplement 4: Other Charts and Tables

This supplement contains charts and tables characterizing Argonne's activities in the following areas:

- Science and math education
- User facilities
- Subcontracting and procurement

A. Science and Math Education

Table S4.1 characterizes Argonne's existing educational programs. The total number of appointments and the number of minorities and women are shown for FY 2001 and FY 2002.

B. User Facilities

Table S4.2 describes experimenters at the Argonne user facilities that have been officially designated as such by DOE. In highly abbreviated terms, these facilities provide the following important scientific capabilities:

- *Advanced Photon Source:* Became operational in 1996, providing superintense x-ray beams meeting research needs in virtually all scientific disciplines and many critical technology areas; accommodates national research centers in basic energy sciences, advanced synchrotron radiation instrumentation, and structural biology, as well as academic and industrial research teams. (Argonne manages a number of specialized user facilities at the Advanced Photon Source through the Laboratory's scientific divisions.)

- *Intense Pulsed Neutron Source:* Accelerates protons to obtain neutrons, which are particularly valuable for the study of materials through analysis of the motions and structures of atoms.

- *Argonne Tandem-Linac Accelerator System:* Accelerates ions of heavy elements for studies of their reactions, to advance basic understanding of the properties of atoms and atomic nuclei.

- *Electron Microscopy Center:* Provides transmission and scanning electron microscopy for high-spatial-resolution imaging, microanalysis, and *in situ* studies, including studies of *in situ* ion irradiation and implantation effects in metals, semiconductors, and ceramics.

C. Subcontracting and Procurement

Table S4.3 describes Argonne's subcontracts and procurements from universities. Table S4.4 describes procurements from small or disadvantaged businesses.

Table S4.1 Participation in Science and Math Educational Programs

Program	FY 2001 Total	FY 2001 Under-represented Minorities[a]	FY 2001 Women	FY 2002 Total	FY 2002 Under-represented Minorities[a]	FY 2002 Women	FY 2003 Projected Total
Students							
Instructional Laboratory[b]	3,433	830	1,323	3,474	840	1,339	3,500
Instructional Vehicle	6,374	2,714	3,284	2,502	1,065	1,289	2,500
Student Conference	284	-	284	383	-	383	400
Teachers							
Argonne Community of Teachers	32	17	25	29	15	23	30
Chemistry Workshop	21	-	16	31	-	22	-
Educational Network Consortium	5,912	-	-	5,023	-	-	5,500
Undergraduate Programs							
Summer Energy Research Participation Program	224	32	78	163	17	57	200
Semester Energy Research Participation Program	46	8	15	34	3	15	30
Community College Initiative	23	9	10	18	8	5	15
Undergraduate Research Symposium	131	-	-	179	-	-	200
Graduate Programs							
Graduate Students — Thesis and Practicum	132	4	43	174	11	55	175
Postdoctoral Fellows	190	8	46	180	10	41	185
National School on Neutron and X-ray Scattering	60	4	21	59	6	21	60
User Programs	608	-	-	817	-	-	850
Faculty Programs							
Faculty Research Participation	31	5	5	18	3	5	20
Sabbatical Leave	6	0	1	1	1	1	3
Faculty Visits	61	3	10	66	3	13	65

[a] Underrepresented minorities include African-Americans, Hispanics, and Native Americans.

[b] Instructional laboratory numbers include all educational levels and Argonne Information Center participants.

Table S4.2 Experimenters at Designated Argonne User Facilities — FY 2002

User Affiliation	Number of Unique Individual Experimenters[a]	Number of Organizations Represented	Percent of Use[b]
Advanced Photon Source			
Argonne	246	1	26
Other DOE Laboratories	103	10	5
Non-DOE U.S. Government	58	9	4
U.S. Universities	1,338	130	36
U.S. Industry	199	50	22
Foreign Government Laboratories	34	12	1
Foreign Universities	221	72	4
Foreign Industry	9	4	1
Other	91	25	1
Total	2,299	313	100
Intense Pulsed Neutron Source[c]			
Argonne	54	6	22
Other DOE Laboratories	37	7	15
Non-DOE U.S. Government	0	0	0
U.S. Universities	111	52	46
U.S. Industry	12	5	5
Foreign Government Laboratories	0	0	0
Foreign Universities	29	15	12
Foreign Industry	0	0	0
Other	0	0	0
Total	243	85	100
Argonne Tandem-Linac Accelerator System			
Argonne	32	1	50
Other DOE Laboratories	9	4	4
Non-DOE U.S. Government	0	0	0
U.S. Universities	41	20	30
U.S. Industry	0	0	0
Foreign Government Laboratories	7	3	4
Foreign Universities	34	18	12
Foreign Industry	0	0	0
Other	0	0	0
Total	123	46	100
Electron Microscopy Center			
Argonne	55	1	64
Other DOE Laboratories	0	0	0
Non-DOE U.S. Government	0	0	0
U.S. Universities	31	10	26
U.S. Industry	0	0	0
Foreign Government Laboratories	6	5	4
Foreign Universities	10	7	6
Foreign Industry	0	0	0
Other	1	1	0
Total	103	24	100

[a] Unique individual experimenters are counted only once, even if they travel to the Argonne user facility multiple times during the year.

[b] Percentage of experimental activity or use. Time devoted to maintenance or upgrading of the facility is not included.

[c] For the Intense Pulsed Neutron Source, the percent of use was calculated from the numbers of individual users, not from experimental time.

Table S4.3 Total External Subcontracting and Procurement ($ in millions)

Source	FY 2002	FY 2003	FY 2004	FY 2005
Universities	12.8	12.0	12.0	12.0
All Other	117.2	120.0	120.0	120.0
Transfers to Other DOE Contractors	15.9	24.3	21.3	19.1
Total External Subcontracts and Procurement	145.9	156.3	153.3	151.1

Table S4.4 Procurement from Small or Disadvantaged Businesses ($ in millions)

Source	FY 2002	FY 2003	FY 2004	FY 2005
Procurements from Small or Disadvantaged Businesses	65.3	61.0	62.0	63.0
Percent of Annual Procurement	58.7	50.0	51.0	52.0